

ACC NR: AP7004632

derived for determining the momentum imparted to the gas by the charged particles per unit of time, the azimuthal velocity of the gas, the axial velocity component, and the total velocity of the gas. In addition, depending on induction and gas discharge, the slope of the gas flow, thermal characteristics of the plasma jet, and the energy balance of the plasmatron were determined experimentally. The spectral measurement of the temperature of a plasma stream of hydrogen was performed by S. Kh. Akhmetova. Orig. art. has: 8 formulas, 5 figures, and 1 table.

SUB CODE: 20/ SUBM DATE: none/ ORIG REF: 002/ OTH REF: 007

Card 2/2

KULAGIN, I. I.; BRYKOVA, Z. I.

Medical Instruments and Apparatus

Work experience of the ampoule shop at the N. A. Semashko Plant. Med. prom. no. 5, 1952.

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified.

PA 11T1

KULAGIN, I.

USSR/Aircraft, Jet Propelled
Jet engines

Feb 1947

"Aircraft Jet Propulsion Engines," I. Kulagin, 10 pp

"Vestnik Vozdushnogo Flota" Vol XXIX, No 2

Discusses the fundamental principles of the system, traction characteristics, economy, specific weight and forward pull, accelerating the TKVRD and increasing its economy. Deals with the TKVRD, PVRD, PuVRD, KVRD and VMU engines, giving 13 graphs of operating data and various mathematical formulae.

11T1

KULAGIN, I.

PA 6816

USSR/Aeronautics
Jet Engines
Rocket Motors

Apr 1948

"Our Nation - The Birthplace of Rocket and Jet Technology," Col I. Kulagin, Engr, Cand Tech Sci, 6 pp

"Vest Vozdush Flota" No 4 (350)

USSR again leads nations of world in field of discovery. As early as 1927 Tsiolkovskiy set up plans for a laboratory in which rocket motors could be built and tested. This also holds true for jet engines. Author closes with statement that since Russia was first to study rocket motors, Soviet pilots are leaders in field of jet plane maneuvers.

FDB

6816

KULAGIN, I.I.

PHASE I.

TREASURE ISLAND BIBLIOGRAPHICAL REPORT

AID 204-I

BOOK

Call No. TJ778.K8

Author: KULAGIN, I.I., Professor, Doctor of Technical Science

Full Title: Theory of Gas Turbine Reaction Engines

Transliterated Title: Teoriya gazoturbinnikh reaktivnykh dvigateley

Publishing Data

Originating Agency: None

Publishing House: State Publishing House of the Defense Industry (Oborongiz)

Date: 1952

No. pp: 336

No. of copies: Not given

Editorial Staff:

Editor: None

Tech. Ed.: None

Editor-in-Chief: None

Appraiser: None

Others: Thanks for valuable assistance are expressed to Kazandzhan, P.K.,
Dotsent, and Tyuttyunov, V.A., Engineer

BR

Text Data

Coverage: This is a textbook written in accordance with the program of a course on the theory of gas turbine reaction engines. The author first outlines the basic information on thermodynamics and dynamics of gases, and then considers the operational processes and calculations of reaction turbine engines (RTE), and of their main components such as compressors, combustion chambers, impellers, and exhaust nozzles. Characteristics of RTE, of turbo-propellor engines, and of RTE with ducted fan and thrust augmenters are also included. During the first

1/2

Teoriya gazoturbinnikh reaktivnykh dvigateley

AID 204-I

perusal of the book no special or original features were noticed.
However, the book contains many varied topics and therefore further
study might be advisable.

Purpose: Approved as a textbook for technical schools of motor construction.
It can be used by aviation technicians and also as a manual for persons
interested in the theory of gas turbine reaction engines, who did not
have a previous special technical education.

Facilities: 20 names of scientists and inventors mentioned in the historical
introduction.

No. of Russian and Slavic References: 3 prior to 1939, 13 after this date.

Available: Library of Congress

2/2

KULAGIN, Ivan Ivanovich, professor, doktor tekhnicheskikh; TYUTYUNOV,
V.A., inzhener, retsenzent; KVASNIKOV, L.A., dotsent, kandidat
tekhnicheskikh nauk, redaktor; SOKOLOV, A.I., inzhener, redaktor;
BOGOMOLOVA, M.F., redaktor; ZUDAKIN, I.M., tekhnicheskiy redaktor.

[Theory of turbojet airplane engines] Teoriia aviationsionnykh gazo-
turbinnykh dvigatelei. Izd. 2-e, ispr. i dop. Moskva, Gos.izd-vo
oboronnnoi promyshlennosti, 1955. 406 p. (MLRA 8:10)
(Airplanes--Turbojet engines)

I. I. KULAGIN

Teoriya aviationsionnykh gazoturbinnykh dvigateley (Theory of Aircraft Gas Turbine Engines). 1955, 497 p.

p. 189-205.

Kulagin, I. I.

AID P - 4655

Subject : USSR/Aeronautics - bibliography

Card 1/1 Pub. 135 - 21/26

Author : Kulagin, I. I., Eng.-Col.

Title : Textbook on aviation gas-turbine engines

Periodical : Vest. vozd. flota, 5, 86-87, My 1956

Abstract : Critical review of the textbook "Aviation gas-turbine engines" by N. V. Inozemtsev, published by the Publishing House of the Defense Industry, Moskva, 1955, 352 pages.

Institution : None

Submitted : No date

AID P - 5139

Subject : USSR/Aeronautics - education
Card 1/1 Pub. 135 - 24/26
Authors : Pyshnov, V. S., Hon. scientist, I. I. Kulagin, Dr.
of techn. sci. and others.
Title : Central museum for the Air Force
Periodical : Vest. vozd. flota, 10, 87-88, 0 1956
Abstract : It is suggested by a number of scientists that the Air
Force should have its own central museum.
Institution : None
Submitted : No date

KULAGIN, I. I.

"Theory of turbojet airplane engines." Vest. Vozd. Pl. 38 no. 2:88 F '56.
(Airplanes--Turbojet engines) (MLRA 9:7)

26(3A, 4)

PHASE I BOOK EXPLOITATION

SOV/1398

Kulagin, Ivan Ivanovich, Doctor of Technical Sciences, Professor
Teoriya aviatzijskikh dvigateley (The Theory of Aviation Engines) 3d ed., rev.
and enl. Moscow. Oborongiz, 1958. 478 p. 10,000 copies printed.

Ed.: Yanovskiy, I. L., Engineer; Ed. of Publishing House: bogomolova, M. F.; Tech.
Ed.: Pukhlikova, N. A.; Managing Ed.: Sokolov, A. I., Engineer.

PURPOSE: This book is approved by the Ministry of Higher Education, USSR, as a
textbook for students of aviation tekhnikums. It may also be useful to workers
specializing in aviation engineering.

COVERAGE: The book, which is the third edition of this title, contains materials for
a general course in the theory of aviation engines of various types. It covers
fundamentals of the theory, heat and gas dynamic analysis, special features of
the working processes and characteristics of aircraft gas turbine engines (turbo-
jets, turboprops, and double-flow turbojets) and their basic components; intake ap-
paratus, compressors, combustion chambers, turbine and exhaust nozzles. The
basic theory, operational conditions, and characteristics of light-fuel air-
craft engines are also briefly described. The third edition contains a newly

Card-1402

RDP86-00513R0009273200

KVASNIKOV, Aleksandr Vasil'yevich, prof. Prinimala uchastiye KLOGHKOVA,
L.L., starshiy prepodavatel', KULAGIN, I.I., otv.(nauchnyy) red.;
KRUGOVA, Ye.A., red.; ERASTOVA, N.V., tekhn.red.

[Theory of liquid propellant rocket engines] Teoriia zhidkostnykh
raketnykh dvigatelei. Leningrad, Gos.soiuznoe izd-vo sudostroit.
promyshl. Pt.1. 1959. 541 p. (MIRA 12:12)
(Airplanes--Rocket engines)
(Rockets--Aeronautics)

ZHIRITSKIY, Georgiy Sergeyevich, prof.; LOKAY, Viktor Iosifovich;
MAKSUTOVA, Makhfuzya Karimovna; STRUNKIN, Valentin
Aleksandrovich; GUROV, A.F., doktor tekhn. nauk, prof.,
retsenzent; KHOLOSHCHEVNIKOV, K.V., doktor tekhn. nauk,
prof., retsenzent; KULAGIN, I.I., doktor tekhn.nauk, prof.,
retsenzent; LEPESHINSKIY, I.A., inzh., red.; BOGOMOLOVA,
M.F., red.izd-va; NOVIK, A.Ya., tekhn. red.

[Gas turbines of aircraft engines] Gazovye turbiny aviatcion-
nykh dvigatelei. Moskva, Oborongiz, 1963. 604 p.

(MIRA 16:9)

(Gas turbines) (Aircraft Engines)

VAS'KOVSKIY, S.A.; GUTMAN, R.A.; KULAGIN, I.K.; MAKAROV, A.P.

Application of automatic ~~seam welding~~ in the railroad car
industry. Zhel. dcr. transp. 38 no.11:28-31 N '56. (MLRA 9:12)

(Car wheels--Welding)

KULAGIN, I.K., kand.tekhn.nauk (Kiyev); RYABCHIY, V.P., inzh. (Kiyev)

Experience in operating rectifiers with compensation and genera-
tion of reactive power. Elek. i tepl.tiaga 3 no.1:32-33 Ja '59.
(MIRA 12:2)

1. Nachal'nik sluzhby elektrifikatsii i energeticheskogo
khozyaystva Yugo-Zapadnoy doregi (for Kulagin).
(Mercury-arc rectifiers)

KULAGIN, IVAN Stepanovich

1964

DECEASED

(3)

Wages -
woodworking industry

SOV/107-59-4-40/45

♦(8)

AUTHOR: Kulagin, L.

TITLE: The Measuring of Sound Frequencies by the Dual Circular Scanning Method (Izmereniye zvukovykh chastot metodom dvoynoy krugovoy razvertki)

PERIODICAL: Radio, 1959, Nr 4, pp 57 - 58 (USSR)

ABSTRACT: The author suggests a method for measuring sound frequencies by an EO-7 oscilloscope with dual circular scanning. The reference frequency voltage and the voltage to be investigated are applied at the deflection plates of the oscilloscope after their phases were shifted by 90° in phase shifting devices, whereby two circular scans of opposite rotation direction are obtained. The sound frequency is determined according to the figures appearing on the screen of the oscilloscope by the following formula:

Card 1/2

SOV/107-59-4-40/45

The Measuring of Sound Frequencies by the Dual Circular Scanning Method

$$\frac{F_1}{F_2} = \frac{N_1 - N_2}{N_2}$$

whereby F_1 and F_2 are the frequencies to be compared; N_1 is the number of lobes of the figure; $N_2 = m + 1$; m is the number of intersected lobes when the beam moves from one lobe to the other. The two circular scans are obtained by a simple additional unit whose circuit diagram is shown by Figure 3 and which is attached to the oscilloscope. There are 4 photos, 1 graph and 1 circuit diagram.

Card 2/2

KULAGIN, L.V., kand. tekhn. nauk

Study of the operation of two-stage burners. Teploenergetika
10 no.11:39-41 N '63. (MIRA 17:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zhelezno-
dorozhnogo transporta.

KULAGIN, L.V., inzh.

Determining the jet angle resulting from the flow of fuel
from centrifugal pumps. Vest.TSNII MPS 18 no.2:40-44 Kr '59.
(MIRA 12:6)

(Jets--Fluid dynamics)
(Centrifugal pumps)

PLACE 1 BOOK INFORMATION 507/951

Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut po zerkol'noy tekhnike i
voprosy gazoturbostroeniya i transportnoy upravleniya; izdaniye akademii
(problems in Gas-Turbine Locomotive Building and Heat-Power Engineering).
(Collection of Articles) Moscow, Transradio-Press, 1971.
(Res. Fund) (pp. 187) 1,000 copies printed.

Sponsoring Agency: Vsesoyuznyy nauchno-issledovatel'skiy institut po zerkol'noy
tekhnike i transportu.

Eds. (title page): Ye. T. Barinov, Candidate of Technical Sciences, and A. V.
Kaz'yakov, Candidate of Technical Sciences, etc. (editors book); I. S. Pechurina,
Tech. Ed.; A. A. Efimov.

PURPOSE: This book is intended for engineers and technical personnel.

CONTENTS: The book consists of 13 articles on the results of experimental investiga-
tion of gas turbine units with turbines for locomotives, based on theoretical and
laboratory investigations of air tank units and their components. Special sections
of variable regimes of locomotive gas turbine engines and problems of fuel
economy in locomotive and stationary units are discussed. No personalities are
mentioned. References concerning some of the articles.

Barinov, Ye. N., Candidate of Technical Sciences. "Fuel Consumption
in Locomotives of Power..."

Tereshchenko, A. V., Candidate of Technical Sciences. "Catalytic Oxidation
of Self-Sustaining Combustion Gaskets Lines..."

Kaz'yakov, A. V., Candidate of Technical Sciences. "Stability of
Combustion in Mechanical Diffusers and its Application in
Aeroengines." Investigation of Gas Turbine Locomotive Performance.

Filatov, I. V., Engineer. "Determining Tolerances for the Dimensions
of Concentrical Fuel Diffusers..."

Chernovskii, I. M., Engineer. "Influence of Technical Parameters on
the Combustion Process in a Piston Chamber..."

Perely, G. P., Candidate of Technical Sciences. "Experimental Investiga-
tion of Heat Exchange in Boiling on the Reticulated Surface of Circular
Pipes..."

Poternik, S. Yu., Engineer. "Investigation and Selection of Types of
Gas Turbines for Small Electric Power Stations..."

Samborskaya, A. I., Engineer. "Aerodynamics of the Combustion Chamber
of a Jet-Engined Locomotive Box With Pneumatic Fuel Delivery..."

Vulponov, Yu. M., Engineer. "Piston-Blowout Brackets
in the Locomotive Gas Turbine Locomotive..."

AVAILABILITY: Library of Congress

KULAGIN, L.V.

KULAGIN, L. V., inzh.

Methods for measuring dimensions of drops during atomization.
Vzaim. i tekhn. izm v mashinostr. i mezhvuz. sbor. no. 2: 442-462 '60.
(MIRA 13:8)
(Atomization—Measurement)

KULAGIN, L.V., inzh.

Effect of changes in the geometrical dimensions of the jet
on the fineness of atomization. Vest. TSNII MPS 17 [i.e. 19]
no.7: 28-31 '60. (MIRA 13:11)

(Fuel pumps)

KULAGIN, L. V., inzh.

Determining tolerances for the basic dimensions of swirlers. Trudy
TSNII MPS no.187;127-138 '60. (MIRA 13:11)
(Gas turbines)

KULAGIN, L.V., inzh.

Characteristics of the evaluation of the fineness of fuel atomization.
Trudy TSNII MPS no.214:103-114 '61. (MIRA 14:8)
(Liquid fuels) (Atomization)

KULAGIN, L.V.

Study of the operation of double-jet two-stage burners. Trudy
TSNII MPS no. 241:154-163 '62. (MIRA 15:12)
(Gas turbines)

L 10017-65 EWT(m)/EPF(g)/EPW(w)-2/T Pr-4/Pab-24 RAEM(i)/AFETM/ASD(p)-3/
AEDC(b) RWH/WW/JW/WE

ACCESSION NR: AT4045685

S/2917/64/000/264/0005/0019

AUTHOR: Kulagin, L. V. (Candidate of technical sciences);
Okhotnikov, S. S. (Engineer)

(E)

TITLE: Substantiation of the requirements for the quality of the atomization of liquid fuel in combustion chambers with high-pressure jet atomizers

SOURCE: Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhного transporta. Trudy*, no. 264, 1964. Ratsional'nyye metody* zhiganiya zhidkogo topliva i prirodnogo gaza (Efficient methods of liquid fuel and natural gas combustion), 5-19

TOPIC TAGS: fuel atomization, jet atomizer, locomotive combustion chamber, diesel fuel, coal distillate, combustion efficiency

ABSTRACT: To substantiate design requirements for high-pressure jet atomizers of heavy liquid fuels, the effect of the degree of atomization on the combustion efficiency has been studied experimentally by burning a diesel fuel and a ~~coal~~ coal-coking distillate in a locomotive combustion chamber under various operation conditions (idle

Card 1/4

L 10817-65

ACCESSION NR: A14045685

run, 25, 50, and 100% load). Analysis of the curves obtained for the completeness of combustion (n_2) vs the engine load (N) and vs the degree of atomization (x_0) showed that the completeness of combustion for the two fuels increased with increasing load to a value of 0.96~0.98 at a load of 100%. All other conditions being equal, the completeness of combustion of the distillate was lower than that of the diesel fuel. This is attributed to the difference in the vaporization constants of the two fuels. The completeness of combustion decreased with increasing diameter of the atomized fuel drops. This dependence was more marked in the case of the distillate than in the case of the diesel fuel. The effect of the degree of atomization on the completeness of combustion decreased with increasing load. The total losses due to incompleteness of combustion connected with mechanical causes (poor atomization) decreased with increasing load. The process of mixture formation (atomization, vaporization, and the burning of drops) is the limiting factor in the burning of heavy fuels. As a result of the experimental study and the review of published theories the following equation was derived for the quality of fuel atomization:

Card 2 / 4

L 10817-35

ACCESSION NR: AF4045685

$$60 = 6 \times 10^{-5} \sqrt{\frac{\phi \lambda V_{\text{comb.}} P}{B_T R T (\alpha L_0 + 1)}}$$

where δ_0 is the initial diameter of a drop; ϕ is the coefficient representing the space occupied by the jet in the combustion chamber; λ is vaporization constant in cc/sec; $V_{\text{comb.}}$ is the volume of the active combustion zone in m^3 ; P is the pressure in the combustion chamber; γ is the specific gravity of the combustion products; B_T is fuel consumption in kg/hr; α is air excess coefficient; and L_0 is the theoretically required amount of air for the combustion of a unit weight of fuel in kg/kg. This expression, which correlates the limiting degree of fuel atomization with operating regime, design parameters, and fuel properties, is based on the following principles postulated on the basis of the experimental data and published theories: (a) the length of the jet flame is determined by the combustion time of the largest fuel drop; (b) the burning of large drops follows the law of the burning of a single drop; (c) parameter ϕ is approximately the same under all operation regimes; (d) the time of burning of the largest drop in the jet flame should not exceed the time of residence of the drop in the combustion zone. Orig. art. has: 11 figures and 3 tables.

Card 3/4

L 10817-65

ACCESSION NR: AT4045685

ASSOCIATION: Vsesoyuznyj nauchno-issledovatel'skiy institut "Železnomorozhniko
transporta, Moscow (All-Union Scientific Technical Institute of Railroad Transport)

SUBMITTED: 00

ATD PRESS: 3117

ENCL: 00

SUB CODE: FP

NO REF Sov: 016

OTHER: 002

Card 4/6

E 8500-65 - EPA/EPR/ - Par-1/P-1 - APTG(e)/ASD(p)/AFETR/AFDC(e)/SSD(T)/ESD(s)
RSD/AFWL/SSD/AEDC(b)/AFMD(t)/ESD(t)

ACCESSION NR: AT4045686

S/2917/64/000/264/0020/0029

AUTHOR: Kulagin, L. V. (Candidate of technical sciences); Okhotnikov, S. S. B
(Engineer); Morozov, B. M. (Engineer)

TITLE: Selection of an efficient design pattern for a pneumatic sprayer

SOURCE: Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut zhelezno-dorozhnogo transporta. Trudy, no. 264, 1964. Rational'nyye metody szhiganiya zhidkogo topliva i prirodnogo gaza (Efficient methods of liquid fuel and natural gas combustion), 20-29

TOPIC TAGS: aerodynamics, propulsion, pneumatic sprayer, combustion chamber sprayer, air fuel ration, turbulent flow, whirl, flame angle, atomizer

ABSTRACT: The Tsentral'nyy nauchno-issledovatel'skiy institut Ministerstva putey soobshcheniya (Central Scientific Research Institute of the Ministry of Communications) has conducted a series of tests, both on laboratory stands and under normal operating conditions, of sprayers used in heating furnaces, hearths, railroad heating systems, and combustion chambers of gas-turbine locomotives. It was found

Card

1/2

E 6500-65

ACCESSION NR: AT4045686

that droplets averaging 100-150 μ in size can be obtained with combustion-chamber and hearth sprayers. These sprayers also yielded good results when tested under operating conditions, though all of them showed a rather high rate of air flow (0.3-0.8 kg per 1 kg fuel). Air sprayers consuming a minimum of energy should meet the following requirements: 1) reduced fuel jet width; 2) maximum relative velocity at the fuel-air boundary; 3) increased surface contact between fuel and spray air; 4) optimum air jet thickness; 5) increased turbulence of air jets; 6) angular direction of the air flow towards the fuel flame; and 7) the possibility of establishing the flame angle needed. The authors believe that a sprayer that would meet these requirements should have fuel supplied between two air jets, and should make use of the centrifugal effect arising when an eddying fuel stream issues from the nozzle. Orig. art. has 9 figures and 8 formulas.

ASSOCIATION: none

SUBMITTED: 30

ATT PRESS: 3104

ENCL: 00

SUB CODE: FR, M2

NO REF Sov: 013

OTHER: 001

272

ALL USES OF THIS DATA ARE RESTRICTED BY THE EMBARGO EXCEPT AS PROVIDED BY THE AGREEMENT FOR THE USE OF THIS DATA

ASD((1)) / AEDC(a) / AFMDC / NM/JW/AS

ACCESSION NR: AF4045687

S/2917/64/000/264/0030/00403

AUTHOR: Kulagin, L. V. (Candidate of technical sciences); Dobrikov, R. F. (Engineer); Okhotnikov, S. B. (Engineer)

TITLE: Analysis of methods of determining fuel losses due to mechanically deficient combustion

SOURCE: Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhogo transporta. Trudy*, no. 264, 1964. Ratsional'nyye metody szhiganiya zaidkogo topiva i prirodnogo gaza (Efficient methods of liquid fuel and natural gas combustion), 30-40

TOPIC TAGS: incomplete combustion, fuel loss, mechanical combustion deficiency, burning process, liquid fuel heater, servomechanic resistance, heat transfer coefficient

ABSTRACT: Various methods used in the determination of incomplete combustion are reviewed. It is asserted that, in comparison to other methods for heat-engineering measurements, these methods have not been developed thoroughly enough. The two most promising processes are said to be the optical method and the separate-

Card 1/2

L 8827-65
ACCESSION NR: AT4045687

afterburning method. The former can be used without expensive apparatus and yields results which require no additional processing. The latter could be used for a more circumstantial study of losses due to mechanically deficient combustion, provided the device used for burning of the combustion products is further improved. Orig. art. has: 1 table, 5 figures, and 19 formulas.

ASSOCIATION: Vsesoyuznyj nauchno issledovatel'skiy institut zeleznyodorozhnogo
transporta (All Union Scientific Research Institute of Railroad Transportation)

ORIGIN: 00 AND PREGST: 00 ENCL: 00

SUB CODE: PP NO REF SOV: 003 OTHER: 000

Card 2/2

KULAGIN, L.V.

Functional interchangeability of centrifugal jets. Vzaim. i tekhn.
izm. v mashinostr.; nauch.-tekhn. sbor. no.4:171-197 '64
(MIRA 18:1)

1. KULAGIN, M.
2. USSR (600)
4. Collective Farms
7. Triumph of the Stalin collective farm system. Kolkh. proizv. 12, no. 11, 1952,
9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

KULAGIN, M.

Artel

Strictly observe the regulations of the agricultural artel and protect communal property. Sots. sel'khoz., 23, No. 7, 1952.

9. Monthly List of Russian Accessions, Library of Congress, October, 1952 ~~1953~~, Uncl.

K. U. K. V. I. A. G. I. N. P.
KULAGIN, M.D. (Frunze)

Natal'ia Aleksandrovna Filatova. Med. soat'ya 17 no.2:36 P 150,
(MIRA 11:3)
(FILATOVA, NATAL'IA ALEKSANDROVNA)

KHAGIN, M. I., Candidate of Technical Sciences

Effect of various types of rails on the residual deformations in the ballast bed. Trudy TINII MKS no. 292-5-18 '65.

Using grinding to eliminate unevenness on the roller face of rails.
Ibid. 79-103 (MIRA 18:10)

KULAGIN, M. I.

KULAGIN, M. I. -- "The Influence of an Isolated Smooth Unevenness on the Work of the Elements of the Upper Structure of a Railroad Track." Min Railways USSR. All-Union Sci Res Inst of Railroad Transport, Moscow 1955. (Dissertations for the Degree of Candidate in Technical Sciences)

SO: Knizhnaya Letopis: No. 39, 24 Sept 55

KULAGIN, M.I., kandidat tekhnicheskikh nauk.

Repairing rail joints by grinding and build-up. Put.i put.khoz.
no.4:11-12 '57. (MLRA 10:5)
(Railroads--Rails)

KULAGIN, Mikhail Ivanovich; LESEVITSKIY, Nikolay Nikolayevich;
NAUMENKO, Valentin Sergeyevich; OVECHNIKOV, Yevgeniy
Vasil'yevich, kand. tekhn. nauk; SOSYANTS, V.G., red.;
TIKHONOVA, I.A., red. izd-va; LELYUKHIN, A.A., tekhn. red.

[Rail corrugation] Volnoobraznyi iznos rel'sov. Pod red.
E.V.Ovechnikova. Moskva, Izd-vo kommun.khoz.RSFSR, 1963.
177 p. (MIRA 16:11)

(Railroads--Rails)

KULAGIN, M. O.

26635 Legochnaya ventilyatsiya pri netuberkuleznykh zabolеванийakh legkikh. Trudy fak. Terapevt. Kliniki (Ivan Gos, Med. In-T), vyp. 3, 1949, s. 45-53.

SO: LETOPIS' NO. 35, 1949

TRUNIN-DONSKOY, V.N.; FIRER, A.S.; KURAGIN, M.V.

Algorithm for the recognition of a limited number of sound
images. Soob. po vych. tekhn. no.4:9-37 '65. (MTRA 18:9)

BOBROVSKAYA, Z.; KULAGIN, N.

Green light for the propaganda train. Sov.profsoiuzy 7
no.20:50 0 '59. (MIRA 12:12)

1. Chleny presidiuma Dorozhnogo komitata profsoyuza rabotnikov
zhelesnodorozhnogo transporta Sverdlovskoy zheleznoy dorogi.
(Railroads--Employees) (Industrial relations)

KULAGIN, N.

Let us improve operational accounting methods. Den. i kred.
17 no.3:65-68 Mr '59. (MIRA 12:4)
(Kuybyshev Province--Banks and banking--Accounting)
(Machine accounting)

KUZAGIN, N.

Establishing consolidated norms for work expenditure. Sots.trud
8 no.4:128-135 Ap '63. (MIRA 16:4)
(Production standards)

PUSHEV, G.; RUMYANTSEV, A.M., red.; KULAGIN, N., red.; GARSIA, L., red.; DARONYAN, M., mladshiy red.; NOGINA, N., tekhn. red.

[Agrarian question and the national liberation movement; materials of a discussion of Marxist agrarians held in Havana and Bucharest in July-September, 1960] Agrarnyi vopros i natsional'no-osvoboditel'noye dvizhenie; materialy obmena mneniiami marksistov-agrarnikov, sostoiavshegosia v iuile-sentyabre, 1960 g. v Gavane i Bukhareste. Pod obshchei red. A.M. Rumiantseva. Moskva, Sotsekviz, 1963. 531 p. (MIRA 16:6)

1. Chlen-korrespondent AN SSSR (for Rumyantsev).
(Underdeveloped areas-- Land tenure)

NAZAROVA, V., KULAGIN, N.

Practice in mechanizing savings bank operations. Den. i kred. 21
no.63-65 Je '63. (MIRA 16:8)

1. Nachal'nik mashinoschetnoy stantsii Saratovskoy oblastnoy
kontory Gosbanka (for Nazarova). 2. Glavnyy bukhgalter
Saratovskoy oblastnoy kontory Gosbanka (for Kulagin).

(Saratov Province--Punched card systems--Bank deposits)
(Saratov Province--Savings banks--Accounting)

GOSTEV, V.S. (Moskva, D-284, Begovaya u., 11, kv. 37); AZLETSKAYA, A.Ye.;
SAAKOV, A.K.; GRIGOR'YAN, D.G.; CHAMOVA, K.G.; ZYKOV, Yu.V.;
PERELAZNYY, A.A.; MAZINA, N.M.; KULAGIN, N.A.; MAKOVYEVA, G.M.

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deprived of soluble proteins. Vop. onk. 8 no.9:18-26 '62.

(MIRA 17:6)

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biologii AMN SSSR (dir.- prof. I.N. Muyskiy).

KULAGIN, N.

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Distribution of communal products of the collective farms, Vop. ekon., No. 8, 1952.

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Zhizn, 1953. 47 p.

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1. Agriculture - U.S. 2 Agriculture - Europe.

KULAGIN, N.A.

[Economic condition of the peasantry in capitalist countries]
Ekonomicheskoe polozhenie krest'ianstva v kapitalisticheskikh
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po rasprostraneniuu politicheskikh i nauchnykh znanii. Serija 2,
no.36) (MIRA 12:1)

(Peasantry)

BUYANOV, P.S.; KARAVAYEV, A.A.; KULAGIN, N.A.; ASTAKHOV, V., red.;
VALOVOY, D., red.; LEVKOVA, Ye., red.; MOSKVINA, R.,
tekhn.red.

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sotsial'no-ekon.lit-ry, 1959. 347 p. (MIRA 12:11)
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KISELEV, V.N.; LYSYKH, M.I.

Working day of seven hours. Elek. i tepl. tiaga 14 no.3:29
Mr '60 (MIRA 13:7)

1. Dizel'-agregatnaya brigada zagotovitel'nogo tsekha depo
Likhobory Moskovskoy dorogi:
(Nizhniye Likhobory--Railroad workers)
(Hours of labor)

KULAGIN, N.N., dozent

Characteristics of the reflex act and reception. Report No.3:
Cyclic reaction of respiration and blood pressure to stimulation of
muscle receptors in the rabbit. Trudy Kirov. otd. Vses. fiziol.
ob-va'il no.1:3-14 '60. (MIRA 14:8)

1. Kafedra fiziologii s biologicheskoy khimiay Kirovskogo
sel'skokhozyaystvennogo instituta.
(REFLEXES) (RESPIRATION) (BLOOD PRESSURE)

KULAGIN, Nikolay Nikolayevich; DUDAYEV, Pavel Ivanovich; KON'KOV,
P.S., retsenzent; DONTSOV, A.Ya., retsenzent; KOLTUNOVA,
M.P., red.; VOROTNIKOVA, L.F., tekhn. red.

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dorizdat, 1962. 214 p. (MIRA 15:11)
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ziaistva. [By] E.D. Levashov i dr. 2., perer. izd. Moskva,
Transzhelizdat, 1963. 286 p. (MIRA 16:9)
(Electric railroads—Management)

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Amphibious tanks and trucks. Za obor. 23 no.14:17 D 147.
(MIRA 13:3)
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profsoiuzy 16 no.22:23-25 N '60. (MIRA 14:1)

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Stalina, Volokolamskogo rayona, Moskovskoy oblasti (for Lishchenko).
(Volokolamsk District, Socialist competition) (State farms)

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Investigating the antiflaming properties of polyorganosiloxane
compounds used for drilling fluids. Izv. vys. ucheb. zav.;
neft' i gaz 7 no.3:25-30 '64. (MIRA 17:6)

1. Khar'kovskiy gosudarstvennyy universitet i UkrVNIigaz.

BEREZHNOY, Aleksandr Ivanovich; BULATOV, Anatoliy Ivanovich; KULAGIN,
Pavel Grigor'yevich; VATOLIN, G.N., ved. red.; VORONOVA, V.V.,
tekhn. red.

[Plastics in petroleum and gas industries] Plastmassy v neftianoi
i gazovoi promyshlennosti. Moskva, Gostoptekhizdat, 1962. 168 p.
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(Petroleum engineering—Equipment and supplies)
(Plastics)

BEREZHOY, A.I.; KULAGIN, P.G.

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of producing formations in fields having high gas pools. Izv.vys.
ucheb.zav.; neft' i gaz 5 no.2:19-22 '62. (MIRA 15:7)

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(Oil well drilling fluids)

BEREZHOV, A.I.; KULAGIN, P.G.

Changing the casing of the exploitation bottom of gas wells
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uch. zav.; neft' i gaz 5 no.9:51-56 '62. (MIRA 17:5)

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Drilling in producing horizons of gas fields. Trudy VNIIGAZ
no.19/27:113-122 '64 (MIRA 17:8)

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Kh.

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no.3:16-17 '64. (MIRA 18:5)

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Aurora borealis of October 28, 1961. Astron.tsir. no.226:22.0
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(Auroras)

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[deceased]; KULAGIN, S.G., redaktor; MAShevICH, A.G., redaktor;
PARENAGO, P.P., redaktor; RAKHLIN, I.Ye., redaktor; MURASHOVA,
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1954.7 to 1956.7. Astron. tsir. no.182:7 Je '57. (MIRA 11:3)

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(Stars--Observations)

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1. Gosudarstvennoye astronome-geodezicheskoye obshchestvo (for Kulagin, Kovbasyuk, Demidovich). 2. Moskovskoye otdeleniye Vsesoyuznogo astronome-geodezicheskogo obshchestva (for Dagayev, Rozenblyum, Bronshten, Perova).

(Astronomy--Yearbooks)

KULAGIN, S.G.; KOVBASYUK, L.D.; DAGAYEV, M.M.; LAZAREVSKIY, V.S.; KAVERIN, A.A.; KUKLIN, G.V.; CHERNYKH, N.S.; DEMIDOVICH, Ye.G.; BRONSHTEIN, V.A.; YAKHONTOV, N.S. (Leningrad); PEROVA, N.B.; DOKUCHAYEVA, O.D.; KATASEV, L.A.; MASEVICH, A.G.; SHCHERBINA-SAMOYLOVA, I.S.; ARSENT'YEV, V.V.; FRANK-KAMENETSKIY, D.A.; LEYKIN, G.A.; SHCHEGLOV, P.V.; PEREL', Yu.G.; BAKULIN, P.I., otv.red.; MASEVICH, A.G., red.; PARENAGO, P.P., red.; RAKHLEN, I.Ye., red.; AKHLLAMOV, S.N., tekhn.red.

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Astronomicheskii kalendar'. Ezhegodnik. Peremennaia chast', 1960. Red.kollegija P.I.Bakulin i dr. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1959. 351 p. (Vsesoiuznoe astronomo-geodezicheskoe obshchestvo, no.63) (MIRA 13:1)

1. Gosudarstvennoye astronomo-geodezicheskoye obshchestvo (GAGO) (for Kulagin, Kovbasyuk, Lazarevskiy, Demidovich). 2. Moskovskoye otdeleniye Vsesoyuznogo astronomo-geodezicheskogo obshchestva (MOVAGO) (for Dagayev, Bronshten, Perova).
(Astronomy--Yearbooks)

BAKULIN, P.I., otv.red.; DAGAYEV, M.M., red.; KULAGIN, S.G., red.;
KUROCHKIN, N.Ye., red.; MASEVICH, A.G., red.; RAKHLIN, I.Ye.,
red.; AKHLMOV, S.N., tekhn.red.

[Astronomical calendar. Yearbook. Varying part, 1961] Astrono-
micheskii kalendar'. Ezhegodnik. Peremenniaia chast', 1961.
Red.kollegia: P.I.Bakulin i dr. Moskva, Gos.izd-vo fiziko-matem.
lit-ry, 1960. 330 p. (Vsесоiuznoe astronomo-geodezicheskoe
obshchestvo, no.64). (MIRA 14:1)

1. Moskovskoye otdeleniye Vsесоiuznogo astronomo-geodezicheskogo
obshchestva (for Dagayev, Kurochkin).
(Astronomy--Yearbooks)

KULAGIN, S. G.

PAGE 1 BOOK INFORMATION 267/5721

Vsesoyuznaya astrometricheskaya konferentsiya.

Trudy 14-y Astrometricheskoy konferentsii SSSR, Kiyev, 27-30 maya 1958 g.
(Transactions of the 14th Astronomical Conference of the USSR, Held in Kiyev
27-30 May 1958) Moscow, Izd-vo AN SSSR, 1960. 450 p. Errata slip inserted.
1000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Glavnaya astrometricheskaya observatoriya
(Pulkovo).

Resp. Ed.: M. S. Zverev, Corresponding Member, Academy of Sciences USSR; Ed. of
Publishing House: N. K. Zaychik; Tech. Ed.: N. A. Semarayeva.

PURPOSE: The book is intended for astronomers and astrophysicists, particularly
those interested in astrometrical research.

COVERAGE: This publication presents the Transactions of the 14th Astronomical
Conference of the USSR, held in Kiyev 27-30 May 1958. It includes 27 reports
and 55 scientific papers presented at the plenary meeting of the Conference

Card 4/16

Transactions of the 14th Astronomical (Cont.)

SOV/5721

and at the special sectional meetings. An appendix contains the resolutions adopted by the Conference, the composition of the committees, the agenda, and the list of participants at the Conference. A brief summary in English is given at the end of each article. References follow individual articles. The Presidium of the Astronomical Committee (Chairman N. S. Zverev), which supervised the preparation of this publication, expresses thanks to the members of the secretariat: V. M. Vasil'yev, I. G. Kol'chinskiy, A. B. Onegin, and Kh. I. Potter.

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Card 2/46

4

Transactions of the 14th Astrometrical (Cont.)	SOV/5721	
Sakharov, V. I., and I. F. Korbut. A New Zenith-Telescope of the Soviet Latitude Service and Its Test at Pulkovo		246
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Chudovicheva, N. A. Zenith-Telescope ZTL-180 of the Astronomical Observatory imeni Engel'gardt and the First Series of Observations		284
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KULAGIN, S.G.

PAGE 1 BOOK EXCERPT

SOT/4916

Mikaylov, A. A., ed. *Sbornik stately (Space Stations)* Collection of
Stanislav V. Kosmova: Sbornik stately (Space Stations) Collection of
Articles. Moscow, Izd-vo AN SSSR, 1960. 444 p. 25,000 copies
printed. [Series: Akademika nauk SSSR. Nauchno-populyarnaya
seriya.]

Resp. Ed: A. A. Mikhaylov; Compiler: V. V. Fedorov, et. al.
Publishing House: Te. M. Klimov; Tech. Ed: I. D. Morozkova.

PURPOSE: This book is intended both for the space specialist and
the average reader interested in space problems.
COVERAGE: The book contains 73 short articles by various Soviet
authors on problems of earth satellites and space travel. Some pos-
turing of artificial satellites are also discussed. The possi-
bilities of future developments are also discussed. The ar-
ticles were published in the period of 1957-1960. No person-
alities are mentioned. There are no references.

Foreword

Mazurin, A. M. Academician. A Daring Dream of Humanity
Is Realized [October 3, 1958]

5

Korolev, A. Y. Academician. Great Victory of Soviet
Science [October 16, 1957]

15

I. ARTIFICIAL EARTH SATELLITES - TRIUMPH OF THE SOVIET
SCIENCE AND ENGINEERING

3

Provorov, V. Professor. Observation of Artificial Earth
Satellites in Novosibirsk [July 26, 1957]

25

Kulagin, S. G. Artificial Earth Satellites [August 17,
1957]

27

TASS Information [October 8, 1957]
Dobronravov, T. Y. Doctor of Physical and Mathematical
Sciences. On the Way to Mastering Interplanetary Space
[October 9, 1957]

29

Stannikovich, A. P. Professor. The Road to the Stars
[October 9, 1957]

31

TASS Information [November 4, 1957]
How the Second Sputnik Was Arranged [Investigation,

41

November 15, 1957]
Kulagin, S. G. Candidate of Physical and Mathematical
Sciences. The Road to Future Interplanetary Flights
[November 12, 1957]

45

Pokrovskiy, Yu. A. Professor. The Second Sputnik
[November 17, 1957]

49

Name : KULAGIN, S. G.

Remarks : S. G. KULAGIN is the author of an article entitled "Artificial Satellites of the Earth".

Source : M: Stantsii v Kosmose (Stations in Outer Space), a collection of articles, published by the USSR Academy of Sciences, Moscow, 1960, with foreword by Academicians A. N. Nesmeyanov and A. V. Topchiyev, p. 27.

88 10

KULAGIN, S.G.

Remarks on the note "Capron reticules." Geod. 1 kart. no.4:72 Ap
'60. (Surveying—Instruments) (MIRA 13:8)

KULAGIN, S.G.

Latitude station in Gorkiy. Biul.VAGO no.27:48-51 '60.
1. Gor'kovskoye otdeleniye Vsesoyuznogo astronomo-geodesicheskogo
obshchestva. (MIRA 13:6)
(Gorkiy--Latitude--Measurement)

S/035/61/000/004/019/058
A001/A101

AUTHOR: Kulagin, S. G.

TITLE: The Latitude Station of VAGO imeni Prof. K. K. Dubrovskiy at Gor'kiy

PERIODICAL: Referativnyy zhurnal. Astronomiya i Gecdeziya, no. 4, 1961, 17,
abstract 4A214 ("Tr. 14-y Astrometr. konferentsii SSSR, 1958".
Moscow-Leningrad, AN SSSR, 1960, 80-82, Discus. 82, Engl. summary)

TEXT: See RZhAstr, 1961, 1A126

Card 1/1

KULAGIN, S. G.; KALACHEV, A. I.

Studying latitude variations by means of an optical analyzer.
Astron. tsir. no. 209:18-20 Mr '60. (MIRA 13:9)

1. Gor'kovskaya shirotnaya stantsiya Vsesoyuznogo astronomo-
geodezicheskogo obshchestva im. K. K. Dubrovskogo i Nauchno-issle-
dovatel'skiy radiofizicheskiy institut, Gor'kiy.
(Latitude variation)

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KULAGIN, S. (Gor'kiy)

Noctilucent clouds. Astron.tsir. no.213:29 J1 '60. (Clouds) (MIRA 14:1)

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CIA-RDP86-00513R000927320008-0"

KULAGIN, S.G.; KOVBASYUK, L.D.; DAGAYEV, M.M.; LAZAREVSKIY, V.S.; DEMIDOVICH, Ye.G.; BRONSHTEIN, V.A.; YAKHONTOVA, N.S. (Leningrad); KUROCHKIN, N.Ye.; DOKUCHAYEVA, O.D.; SHCHERBINA-SAMOYLOVA, I.S.; MASEVICH, A.G.; LIPSKIY, Yu.N.; MARTYNOV, D.Ya.; ARSENT'YEV, V.V.; MOROZ, V.I.; MASEVICH, A.G.; PEREL', Yu.G.; BAKULIN, P.I., otv. red.; KULIKOV, G.S., red.; AKHILAMOV, S.N., tekhn. red.

[Astronomical calendar; yearbook. Variable part, 1962] Astronomicheskii kalendar'; ezhegodnik. Peremenniaia chast', 1962. Red. kollegiia: P.I. Bakulin i dr. Moskva, Gos. izd-vo fiziko-matem. lit-ry, 1961. 259 p. (Vsesoiuznoe astronomo-geodezicheskoe obshchestvo, no. 65) (MIRA 14:12)

1. Gosudarstvennoye astronomo-geodezicheskoye obshchestvo (for Kalugin, Kovbasyuk, Lazarevskiy, Demidovich). 2. Moskovskoye otdeleniye Vsesoyuznogo astronomo-geodezicheskogo obshchestva (for Dagayev, Bronshtein, Kurochkin).

(Astronomy—Yearbooks)

3.1220

39993
S/035/62/000/008/012/090
A001/A101

AUTHORS: Kulagin, S. G. Kalachev, A. I.

TITLE: Application of an optical analyzer to studying latitude variations

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 8, 1962, 18, abstract 8A146 (In collection: "Predvarit. rezul'taty issled. kolesaniy shirok i dvizheniya polyusov Zemli, no. 2, Moscow, AN SSSR, 1961, 125 - 129, English summary)

TEXT: A special device, optical spectral and correlation analyzer, is proposed for the analysis of astronomical phenomena with respect to their periodicity and for calculations of amplitudes and phases of their periodic components. Three films are drawn in front of the aperture, whose length is D, of the optical analyzer. The process $\varphi(x)$ being investigated is recorded on the one of the films, a sinusoidal signal with a smoothly varying frequency is presented on the second film (filter film), and the third one contains a sinusoidal signal in two halves in anti-phase. The aperture is illuminated with a light source, and the current at the output of photoelements is recorded. When the filter film moves relative to two other fixed ones at a certain speed V, the current at the output of photoelements contains three components which correspond to the main frequency and two

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S/035/62/000/008/012/090
A001/A101

Application of an optical analyzer to....

side frequencies for the given speed. When the analyzer had been calibrated on the basis of processes with known periods, it is possible to single out from the process being investigated various periodic components, i.e., to find their periods, amplitudes and phases. The device was used for the analysis of observational curves of two bright zenith stars, carried out at Poltava by N. A. Popov in 1951 - 1956. Two processes were investigated: Behavior of systematic latitude differences $\varphi_{EW} - \varphi_{EW'}$, and behavior of quantity f (see RZhAstr, 1960, no. 8, 7460) for various stars in different periods. The results were compared with the analysis data by Furich's method performed by N. A. Popov; a good agreement was found between both of them. The high efficiency of the device is noted in saving the time and calculation labor for studies of periodic processes in astronomy, in particular for studies of latitude variations. There are 7 references.

X
Kh. Potter

[Abstracter's note: Complete translation]

Card 2/2

S/169/63/000/003/011/042
D263/D307

AUTHORS: Demidovich, Ye.G. and Kulagin, S.G.

TITLE: Observations of noctilucent clouds by the Gor'kovs-
koye otdeleniye VAGO (Gor'kiy Branch of VAGO) in
1960

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 3, 1963, 32,
abstract 3A189 (Tr. Soveshaniya po serebristym obla-
kam, 1961, T.3. Tallin, 1962, 157-163 (Eng. summary))

TEXT: Five sightings of noctilucent clouds were recorded
in the period of observation (from May to August 1960). A converg-
ing table of patrolling of noctilucent clouds is given. The sight-
ings were compared with synoptic conditions. It was found that dur-
ing the nights of 25-26th, 26-27th, 27-28th, noctilucent clouds
were observed under anticyclone conditions.

Abstracter's note: Complete translation

Card 1/1

BAKULIN, P.I., otv. red.; DAGAYEV, M.M., red.; KULAGIN, S.G., red.;
KUROCHKIN, N.Ye., red.; MASEVICH, A.G., red.; RAKHLEN, I.Ye.,
red.; BRUDNO, K.F., tekhn. red.

[Astronomical calendar. Yearbook for 1963. Varying part]
Astronomicheskii kalendar'. Ezhegodnik. Peremennaya chast',
1963. Red. kollegiia: P.I. Bakulin i dr. Moskva, Fizmatgiz,
1962. 287 p. (Vsesoiuznoe astronomo-geodezicheskoe obshchestvo,
no.66) (MIRA 15:12)

(Astronomy--Yearbooks)

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S/269/63/000/004/009/030
A001/A101

AUTHORS: Demidovich, Ye. G., Kulagin, S. G.

TITLE: Observations of noctilucent clouds in the Gor'kiy branch of VACO in
1960

PERIODICAL: Referativnyy zhurnal, Astronomiya, no. 4, 1963, 28, abstract
4.51.275 ("Tr. Soveshchaniya po serebristym oblakam, 1961, v. 3",
Tallin, 1962, 157 - 163, English summary)

TEXT: Five cases of appearance of noctilucent clouds were noted during
the period of observations (June, July, and partially also May and August 1960).
The summary table of patrol service is presented. The occurrence of noctilucent
clouds was compared with synoptic conditions. It turned out that in nights
25 - 26, 26 - 27 and 27 - 28 June, noctilucent clouds were observed under con-
ditions of anticyclone.

N. R.

[Abstracter's note: Complete translation]

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